

John Dimm

Full Stack Lead and Data Engineer

John Dimm
1153 Agate St
San Diego, CA 92109

LinkedIn: <https://www.linkedin.com/in/johndimm/>
Home page: <https://johndimm.vercel.app/>

Skills

- MySQL, PostgreSQL, Lovefield
- SQL query optimization
- React and nextjs for front-end development
- Serverless function apps on Azure
- Data Pipelines and ETL processing
- Amazon Alexa Skills
- Google Chrome Extensions
- Recommender systems

Experience

2020 - 2024	Gardyn	Staff engineer
		<ul style="list-style-type: none">● Gardyn sells a hydroponic indoor garden to grow food● back-end development of a python API● Javascript and Typescript serverless function apps hosted in Azure● time lapse videos created using ffmpeg● time lapse flipbooks
2020 - 2021	Galigo	CTO and co-founder
		<ul style="list-style-type: none">● Galigo is the continuation of Eleventh Hour● Membership portal for industrial organizations● Marketplace for green products
2020	Eleventh Hour Global	Software Engineer
		<ul style="list-style-type: none">● Topical Search Engine for green products● Likes, Comments, Recommendations● React, Redux, Express● PostgreSQL
2018 - 2019	Zuora	Senior Software and Data Engin
		<ul style="list-style-type: none">● Utilization history for Insights● Revpro/Zuora Bookings Reconciliation● Cerebro data aggregator

- PostgreSQL, Python, Angular

2015 – 2018 Acculitx Senior Data Engineer

- FICO-like score for driving behavior
- Responsible for all software development and operations
- Based on accelerometer data from installed devices or cellphone
- back-end: mySQL, python, php, celery asynchronous task queue
- front-end: angular, react, jquery
- hosted on Amazon Web Services
- passwordless login

2011 – 2014 SYSTRAN Director of Software Engineerin

- A pioneer in Machine Translation
- The engine that powered Babel Fish, the first online translation service
- Merging statistical methods with a rules-based system
- Named Entity Recognition

2008 – 2010 Photometria Director of Engineering, Softwa Developer

- E-commerce using Amazon and linkshare
- Facebook desktop widgets
- Computer Vision algorithms in openCV and openGL
- Google Maps mashups
- Recommendations

2007 – 2008 Veoh Networks Director, Search & Analytic

- Metrics
- Video Recommendations
- Hadoop, pig
- Recommendations as Behavioral Search
- Interactive drill-down reporting interface
- Virtual Database management system
- SQL on MySQL and Oracle
- Data Warehouse
- teams in San Diego and St. Petersburg, Russia
- Reporting for large SQL Server databasesTools for management of hybrid human/computer classification
- Support Vector Machines
- Digital Fingerprint
- as director, managed teams of 8 to 45 developers in San Diego

2000 – 2004	Websense	Chief Scientist, Director of Data Reporting
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- Tools for management of hybrid human/computer classification
- Support Vector Machines
- Digital Fingerprint
- as director, managed teams of 8 to 45 developers in San Diego

Education

Princeton University

- full fellowship in History and Philosophy of Science
- Linguistics
- Metaphysics: the problem of identity over time
- Decision Theory: Newcomb's paradox
- Logic, Model Theory
- Frege and the Foundations of Mathematics

University of Washington

- Ethnomusicology
- Philosophy
- Linguistics
- Mathematics
- B.S. Mathematics, B.A. Philosophy
- cum laude, Phi Beta Kappa

Products and Personal Projects

2025: Ebay comics sold

- Does a live query on ebay
- Guesses whether a comic is “slabbed” or “raw”
- Graphs sold price and asking price by grade

2025: Long Tail and Collaborations

- Extends the **Collaboration Graph Browser**
- Browse IMDB movies by combinations of genres and dates

2024: Wall of Comics

- My collection of Marvel comics from the 60's
- React/Nextjs
- Extract stock cover photos and plots from the Marvel API
- Filterpanel to slice and dice
- Hosted on vercel

2021: Collaboration Graph Browser

- Extracted the list of musicians on an album from the musicbrainz database.
- React/Nextjs UI
- What were the musicians on this album doing before and after?
- The same analysis was done on the public IMDb data for movies and tv shows.

2021: Filterpanel

- E-commerce uses filter panels as a powerful adjunct to search.
- This npm package generates a filter panel from a JSON array
- A React/Next app generates an appropriate JSON array from a CSV file
- Very fast response
- All analysis done on the client in javascript

2019: TalkShow for Alexa

- Alexa Skill for Echo Show or Fire TV Stick
- Bing (Azure) image search
- Flickr image search
- Slideshow of found images
- Available now on amazon.com

2019: Breakdown for Mint and Personal Capital

- Google Chrome Extension
- Slice and dice financial data
- React
- Google's Lovefield javascript dbms

2018: What Looks Good?

- Yelp Dataset Challenge
- structure from unstructured data
- Python NLTK
- React
- MySQL

2013: The Translating Telephone

- continuous voice-to-voice translation
- video conferencing using WebRTC
- Bing or Systran translation
- Web Speech API
- Google Chrome browser
- javascript

2013: Interpreter

- Hands-free continuous voice-to-voice translation on the web
- Web Speech API
- Bing Translator API
- Google text-to-speech

2013: TalkShow Story Illustrator

- pictures of the things you're talking about
- Web Speech API
- Alchemy API for NER

2008: Veoh Discovery

- Recommendations based on video viewing behavior
- Behavioral search
- Hadoop and Pig

2004: Websense Explorer

- interactive drill-down reporting interface
- on-the-fly summarization
- high volume log processing
- Virtual Database management system

1999: Topic Miner and Context Wrapper

- LingustX extracted noun phrases from free text
- fuzzy matching to titles of encyclopedia articles
- display of article images and text extracts as marginalia

Patents

2008: Search system using patterns of behavior (pending)

- use of recommendation technology to implement a search function

2007: System and method of monitoring and controlling application files (granted)

- identification of Windows software by hashing executable files
- removal of Import Address Table
- C# program to facilitate the manual classification process

Publications

2001: Presenting content one slide at a time (web techniques)

- Javascript slideshows implemented 4 ways

1991 : A tiny Windows Class Library (Programmer's Journal)

- first published Windows class library
- create a generic Windows app in five statements